

Baguio in making flower stands, picture frames, and various small, useful, and ornamental articles for the office or the home, which are really ornamental, picturesque, and distinctly different from anything in that line that I have ever seen. The plants are very abundant, and if the stems would ship successfully and the plants later could be sold at a price that would be remunerative to the importer, you would gain an ornamental that in its line would be second to none." (*Wester.*)

39579 to 39581. CITRUS spp. Rutaceæ.

From Lamao, Bataan, Philippine Islands. Presented by Mr. P. J. Wester, horticulturist, Lamao Experiment Station. Received December 19, 1914. Quoted notes by Mr. Webster.

39579. CITRUS GRANDIS (L.) Osbeck.

Panuban.

(*Citrus decumana* Murr.)

"*Panuban*. An oblate fruit the size of a large orange, smooth, of the same color as the pummelo, thin skinned, juicy, and well flavored. I have not seen the trees, but believe it to be a hybrid between the pummelo and the orange or mandarin."

"A spiny tree, 3 to 4 meters tall, of robust growth; young growth pubescent; leaves 12 to 17 centimeters long, 4.7 to 8 centimeters wide, oblong ovate, crenate, coriaceous; base rounded; petiole 15 to 23 millimeters long, wing margins narrow, at most 18 millimeters broad, and cuneiform; flowers not seen; fruit 5.7 centimeters long, 7 centimeters in transverse diameter; oblate with shallow apical cavity; surface smooth, lemon yellow; skin very thin; pulp contained in 11 to 12 locules, yellowish, fairly juicy, subacid, acidity and sweetness well blended, aromatic and well flavored; seed large, polyembryonic. The *panuban* is said to bloom about New Year, and the fruit ripens in September to November; the trees are reported to be very prolific. The *panuban* has been reported only from Lias, Bontoc, where half a dozen trees are said to grow. Possibly it may be an accidental hybrid between the pummelo and the orange or mandarin; if it is simply a mutation it is one of the most striking of the species. However this may be, the pummelo character is strongly dominant in both the foliage and the fruit. Very well flavored, the fruit is too dry to be acceptable to a discriminating public, but it is not improbable that under cultivation the juiciness would increase. In such a case the *panuban* might become a fruit of commercial importance." (Adapted from *Philippine Agricultural Review*, vol. 8, first quarter, 1915, p. 12.)

39580. CITRUS MEDICA ODORATA Wester.

Tihi-tihi.

"*Tihi-tihi*, the leaves of which analyze 0.6 per cent of essential oil. The plant is a shrub, fruiting three years from seed; the fruit is of no value.

"A small, thorny shrub, seldom exceeding 2.5 meters in height, with sharp, stout spines; young growth bright green; leaves 7.5 to 11 cm. long, 4.3 to 6.5 cm. broad, elliptical, rather thick and leathery, serrate, of distinct fragrance; base rounded; apex notched; petioles very short, 4 to 6 mm. long, not winged; flowers one to four, in axillary compressed cymes, sessile, rarely exceeding 38 mm. in diameter; calyx large, prominently cupped; petals four to five, fleshy, white, with a tinge of purple